

Name _____

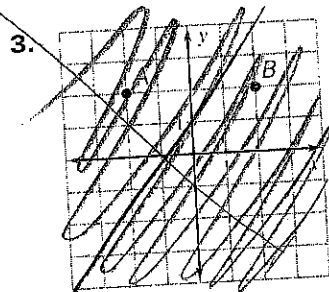
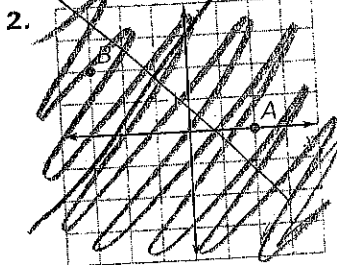
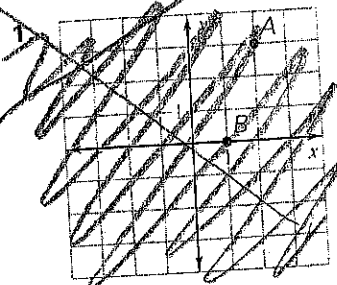
Date _____

LESSON
3.4**Practice B**

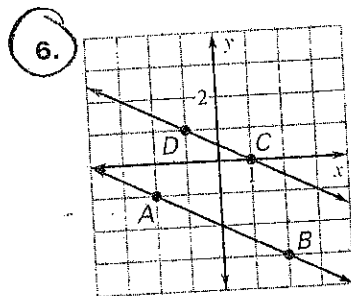
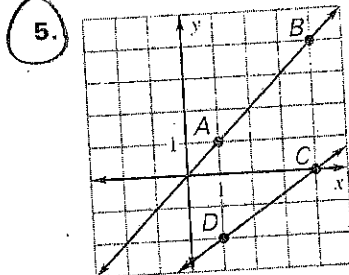
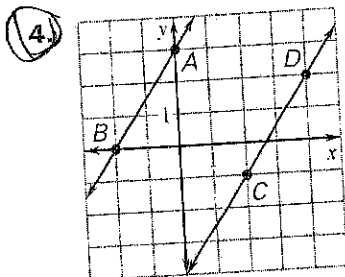
For use with pages 171-179

Do Circled numbers

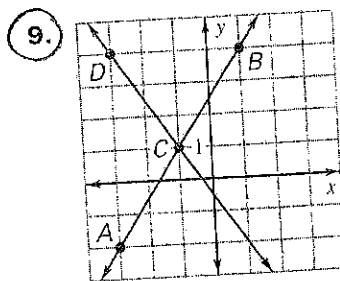
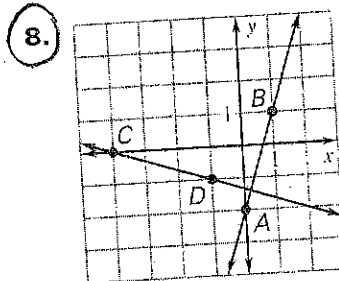
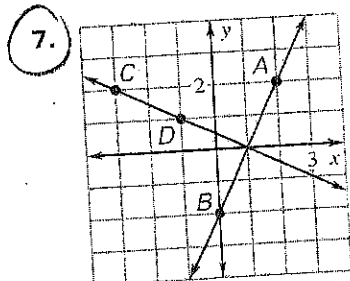
Find the slope of the line that passes through the points.



Find the slope of each line. Are the lines parallel?



Find the slope of each line. Are the lines perpendicular?

Tell whether the lines through the given points are *parallel*, *perpendicular*, or *neither*.

10. Line 1: $(-1, 2), (2, 3)$
Line 2: $(0, 0), (3, 1)$

11. Line 1: $(0, 1), (1, 3)$
Line 2: $(4, -1), (5, 2)$

12. Line 1: $(-5, 0), (-3, -2)$
Line 2: $(-2, 2), (0, 4)$

13. Line 1: $(-3, 4), (-3, 1)$
Line 2: $(2, 1), (5, 5)$

14. Line 1: $(-3, 2), (-2, 2)$
Line 2: $(2, 1), (4, 1)$

15. Line 1: $(-2, 5), (1, 4)$
Line 2: $(4, 0), (5, 3)$

Tell whether the intersection of \overline{AB} and \overline{CD} forms a right angle.

16. $A(-8, 3), B(1, 2), C(0, 9), D(-1, 0)$

17. $A(3, 2), B(5, 10), C(7, -4), D(3, -3)$

18. $A(5, 4), B(-3, 20), C(9, -2), D(6, 4)$

19. $A(7, 12), B(1, 5), C(10, -7), D(3, -1)$

20. $A(-8, 17), B(-5, 18), C(6, 11), D(5, 8)$

21. $A(-7, 5), B(-10, 15), C(-1, 5), D(4, 35)$

Name _____

LESSON
35**Practice C**

For use with pages 180-187

Write an equation of the line with the given slope m and y -intercept b .

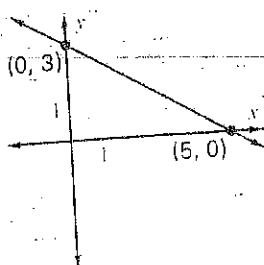
1. $m = \frac{3}{4}$; $b = -4$

2. $m = -\frac{3}{2}$; $b = \frac{5}{4}$

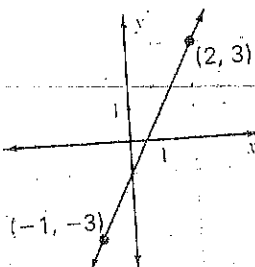
3. $m = \frac{10}{3}$; $b = -\frac{2}{5}$

Write an equation of the line shown.

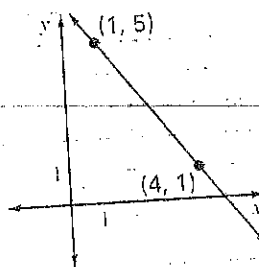
4.



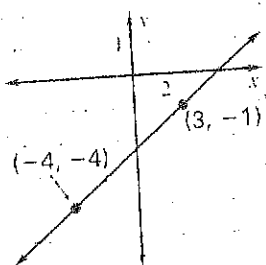
5.



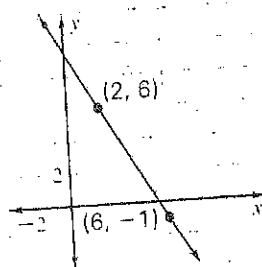
6.



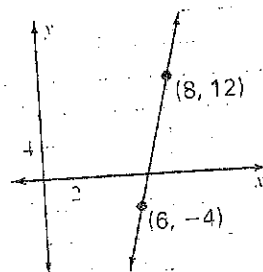
7.



8.



9.

Write an equation of the line that passes through the given point P and has the given slope m .

10. $P(3, 4)$; $m = 4$

11. $P(5, -2)$; $m = -3$

12. $P(-3, 2)$; $m = \frac{1}{3}$

13. $P(3, \frac{1}{2})$; $m = -4$

14. $P(5, 3)$; $m = -\frac{5}{3}$

15. $P(\frac{1}{2}, \frac{1}{4})$; $m = \frac{1}{2}$

Write an equation of the line that passes through point P and is parallel to the line with the given equation.

16. $P(3, -3)$; $y = 4x - 6$

17. $P(6, -1)$; $y = 3x - \frac{3}{4}$

18. $P(-4, 6)$; $y = -2x - 3$

19. $P(\frac{5}{2}, 4)$; $y = 4x + 1$

20. $P(1, -\frac{2}{3})$; $y = \frac{1}{3}x - 7$

21. $P(\frac{5}{3}, \frac{11}{4})$; $y = -\frac{6}{5}x + 4$

Write an equation of the line that passes through point P and is perpendicular to the line with the given equation.

22. $P(-4, -4)$; $y = -2x + 1$

23. $P(2, -3)$; $y = -4x - 5$

24. $P(5, 4)$; $x = -5$

25. $P(1, -7)$; $y = \frac{1}{2}x - 5$

26. $P(-2, \frac{7}{2})$; $y = -\frac{1}{4}x + 7$

27. $P(-\frac{3}{4}, \frac{16}{3})$; $y = \frac{9}{2}x + 1$

Put #21
in standard
form.

Name _____

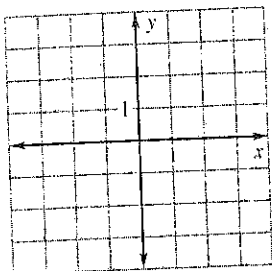
Date _____

LESSON
3.5

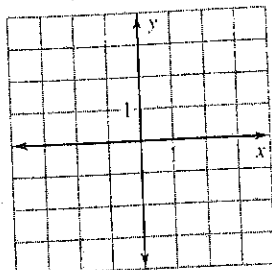
Practice C *continued*
For use with pages 180–187

Graph the equation.

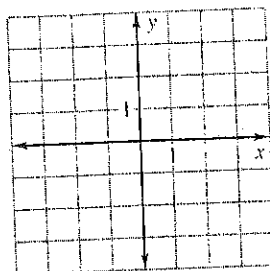
28. $2x + 4y = 3$



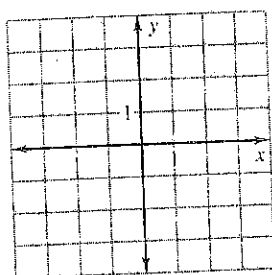
29. $x + 3y = 4x - 2$



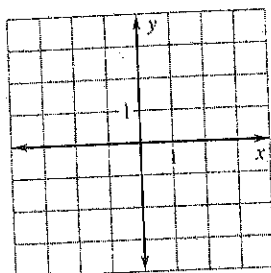
30. $x - 2y = y + 5$



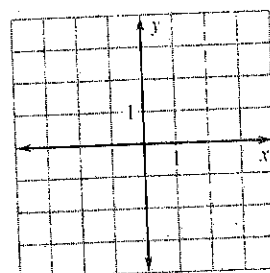
31. $4(x - 2) + 2 = 2y - 4$



32. $3(y - 4) = 7x - 15$

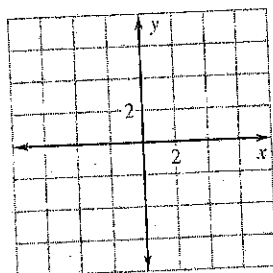


33. $2(y + 1) = 3x + 5(y + 2)$

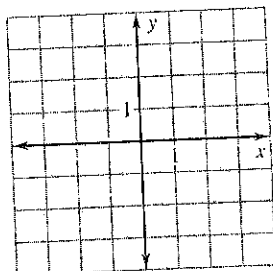


Graph the linear equations. Then use the graph to estimate how many solutions the equations share.

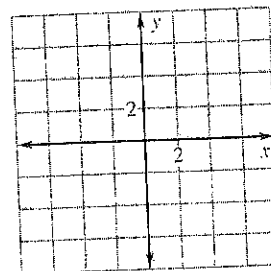
34. $x + 3y = 2$
 $3x - y = 5$



35. $3x - 2y = 3$
 $6x - 4y = 6$



36. $4x + 7y = 4$
 $2x + \frac{7}{2}y = 14$



In Exercises 37–39, use the following information.

Amusement Park The cost of admission to an amusement park is \$175 for a season pass or \$35 per visit.

37. Write an equation to model each situation.
38. Graph each equation.
39. What is the break-even point?

